

Summary of selected water-quality data from ground-water samples collected from February 1995 through December 2008 as a part of the *Equus* Beds Ground-Water Recharge Project.

[mg/L, milligrams per liter; DWA, drinking water advisory; SDWR, secondary drinking water regulation; <, less than; MCL, maximum contaminant level; µg/L, micrograms per liter; cols/100 mL, colonies per 100 milliliters; MCLG, maximum contaminant level goal]

**Aquifer Storage and Recovery (ASR) Phase I
Recharge Basins 1-2, Recharge - Recovery Wells 1-4**

Compound or fecal indicator bacteria	Water-quality criteria	Number of Samples	Minimum	Maximum	Mean	Median	Percentage of Samples Detected	Percentage of Samples Exceeding Criteria	Percentage of Replicate Samples Exceeding Criteria
Sodium, dissolved (mg/L)	20 mg/L (DWA) ^a	216	19.39	85.9	39.4	35	100	98	100
Sulfate, dissolved (mg/L)	250 mg/L (SDWR) ^a	216	< 5	341	37.9	21.2	99.5	2.53	0
Chloride, dissolved (mg/L)	250 mg/L (SDWR) ^a	216	< 5	170	33.3 ^b	9.25	82.3	0	0
Nitrite plus nitrate as nitrogen, dissolved (mg/L)	10 mg/L (MCL) ^a	216	0.01	5.36	0.118 ^b	0.017	35.9	0	0
Arsenic, dissolved (µg/L)	10 µg/L (MCL) ^a	216	< 1	20.3	6.60	5.67	97	16.2	5.56
Iron, dissolved (µg/L)	300 µg/L (SDWR) ^a	216	< 50	8,400	799 ^b	143	52.5	39.9	38.9
Manganese, dissolved (µg/L)	50 µg/L (SDWR) ^a	216	15	725	301	274	100	99	100
Total coliform bacteria (cols/100 mL)	0 cols/100 mL (MCLG) ^a	216	< 1	24	0.670 ^a	0.035	12.1	12.1	16.7
Fecal coliform bacteria ^c (cols/100 mL)	200 cols/100mL (MCLG) ^d	114	< 1	10	< 1	< 1	6.14	0	0
	2,000 cols/100mL (MCLG) ^d	84	< 1	16	< 1	< 1	1.2	0	0
<i>Escherichia coli</i> ^e (cols/100 mL)	262 cols/100mL (MCLG) ^f	NA	NA	NA	NA	NA	NA	NA	NA
	2,358 cols/100mL (MCLG) ^f	2	1	1	1	1	100	0	0
Atrazine herbicide	3 µg/L as an annual average ^a (MCL)	64	0.002	0.676	0.02	0.0035	20.3	0	0
Triazine herbicide screen, dissolved (µg/L as Atrazine)	3 µg/L as an annual average ^a (MCL)	198	< 0.1	0.92	< 0.1	< 0.1	3	0	0
Alachlor (µg/L)	2 µg/L (MCL) ^a	64	0.002	0.0697	< 0.005	< 0.005	3.1	0	0

^a U.S. Environmental Protection Agency (2006)

^b Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

^c For fecal coliform bacteria, the primary contact recreation surface-water criterion of 200 cols/100mL was used from April 1 - October 31 (when most water-contact recreation occurs); from November 1 - March 31, the criterion of 2,358 cols/100mL was used.

^d Kansas Department of Health and Environment (2001)

^e For *Escherichia coli*, the primary contact recreation surface-water quality criterion of 262 cols/100mL was used from April 1 - October 31 for Class B (public access) stream segments; from November 1 - March 31, the criterion of 2,358 cols/100mL was used.

^f Kansas Department of Health and Environment (2004)